

Information Science & Technology Institute (ISTI) Rapid Response Quantum Programming Presentations

**December 13, 2017, 8:30 am – 12:15 pm
Jemez/Cochiti Rooms, Study Center**

08:30	Welcome.....	Stephan Eidenbenz NSEC
08:35	Quantum Fourier Transform, Shor's Algorithm.....	Hristo Djidjev, Gopinath Chennupati CCS-3
08:55	Quantum Simulation	Petr Anisimov AOT-AE
09:10	Quantum Simulation (Transverse Quantum Ising Model)	Lin Shizeng T-4
09:25	Quantum Approximate Optimization	Carleton Coffrin A-1
09:40	Quantum Tomography	Andrey Lokhov T-5
09:55	<i>Break</i>	
10:05	Quantum Principal Component Analysis	Patrick Coles T-4
10:20	Lloyd's Algorithm	Lakshman Prasad, Phil Romero ISR-3, HPC-ENV
10:35	Quantum Support Vector Machine	Boram Yoon CCS-7
10:55	Graph Properties in Adjacency List Model and Grover's Algorithm.....	Nathan Lemons T-5
11:10	Network Flows.....	John Ambrosiano, Randy Roberts A-1
11:25	State Preparation	Balu Nadiga CCS-2
11:40	Future Directions for Quantum Computing at LANL	John Sarrao ADTSC
12:00	<i>Adjourn</i>	

Purpose: Rapid Response Quantum Programming Presentations
Institutional Host: Information Science & Technology Institute (ISTI)
Technical Host: Stephan Eidenbenz, eidenben@lanl.gov, 505-667-3742
Planner POC: Nickole Aguilar Garcia; NSEC, 505-665-3048

LANL Update: 505-667-6622 or 1-877-723-4101: Provides information about changes in the Laboratory schedule (i.e., closings or delays) Protocol Office will adhere to all weather delays/closings.